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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/007,279	11/12/2001	Naohiro Yasuda	2271/66021	6922
7590 09/09/2005			EXAMINER	
Ivan S. Kavrukov			BURLESON, MICHAEL L	
Cooper & Dunh	am LLP			
1185 Avenue of the Americas			ART UNIT	PAPER NUMBER
New York, NY 10036			2626	

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/007,279	YASUDA, NAOHIRO				
Office Action Summary	Examiner	Art Unit				
	Michael Burleson	2626				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	•					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>2-4,7,9-11 and 14-25</u> is/are allowed.						
6)⊠ Claim(s) <u>1,6 and 8</u> is/are rejected.	6)⊠ Claim(s) <u>1,6 and 8</u> is/are rejected.					
7)⊠ Claim(s) <u>5,12,13</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∍ 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	s have been received in Applicati	on No				
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) 🔯 Notice of References Cited (PTO-892) 4) 🔲 Interview Summary (PTO-413)						
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) A Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1110	6) Other:	atent Application (PTO-152)				

### **DETAILED ACTION**

### **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

## Information Disclosure Statement

The information disclosure statement (IDS) was submitted on November 12,
 Accordingly, the information disclosure statement is being considered by the examiner.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/007,279

Art Unit: 2626

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 3

- 2. Claims 1,6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Koike Kazumasa.
- 3. Regarding claim 1, Kazumasa teaches of a scanner section (2) (paragraph 0013), this reads on an image sensor configured to read an image of an original document to generate read image data. Kazumasa teaches of a scanner section (2) that performs shading compensation (paragraph 0013), which reads on a shading correction device configured to perform a shading correction on said read image data. He teaches of a malfunction detection section (3) that performs abnormal pixel detection based on white image data (paragraph 0014 and 0019), which reads on an abnormal white image pixel detection device configured to examine a value of standard white image data on a pixel-by-pixel basis to determine whether or not pixels are abnormal, wherein the standard white image data is acquired by reading a white image which is a standard for a shading correction. Kazumasa teaches of a predetermined threshold (Th) for abnormality pixel judging (paragraph 0022), which reads on a previously specified value is stored for use as the standard white image data for the pixels that are determined to be abnormal by said abnormal white image pixel detection device.
- 4. Regarding claim 6, Kazumasa teaches of a scanner section (2) (paragraph 0013 and 0014), this reads on acquiring standard white image data by reading a white image. He teaches of a malfunction detection section (3) that performs abnormal pixel detection based on white image data (paragraph 0014 and 0019), which reads on determining whether or not the standard white image data is abnormal by examining the standard.

Application/Control Number: 10/007,279 Page 4

Art Unit: 2626

Kazumasa teaches of a predetermined threshold (Th) for abnormality pixel judging (paragraph 0022), which reads on storing a previously specified value as the standard white image data for the pixels that are determined to be abnormal.

5. Regarding claim 8, Kazumasa teaches of a scanner section (2) (paragraph 0013), this reads on an image sensor means for reading an image of an original document to generate read image data. Kazumasa teaches of a scanner section (2) that performs shading compensation (paragraph 0013), which reads on a shading correction means for performing a shading correction on said read image data. He teaches of a malfunction detection section (3) that performs abnormal pixel detection based on white image data (paragraph 0014 and 0019), which reads on an abnormal white image pixel detection means for examining a value of standard white image data on a pixel-by-pixel basis to determine whether or not pixels are abnormal, wherein the standard white image data is acquired by reading a white image which is a standard for a shading correction. Kazumasa teaches of a predetermined threshold (Th) for abnormality pixel judging (paragraph 0022), which reads on a previously specified value is stored for use as the standard white image data for the pixels that are determined to be abnormal by said abnormal white image pixel detection means.

Application/Control Number: 10/007,279

Art Unit: 2626

### Allowable Subject Matter

Page 5

- 6. Claims 2-4,7,14,9-11,15-23,24 and 25 are allowed.
- 7. Regarding claim 2, Prior art fails to teach of a image data correction device configured to correct a value of continuous pixels, which is determined to be abnormal when the image of the original document is read, based on a value of a normal pixel around the continuous abnormal pixels on which the shading correction is performed, when the number of the continuous abnormal pixels is within a predetermined allowable number and a previously specified value is stored for use as the standard white image data for pixels that are determined to be abnormal by said abnormal white image pixel detection device, and wherein the value of the standard white image data for all of pixels in a region in which the number of the pixels which are determined to be abnormal and for which the previously specified value is stored exceeds the predetermined allowable number, is replaced with a predetermined value.
- 8. Regarding claim 7, Prior art fails to teach of a method of replacing the value of the standard white image data for the pixels in a second region, in which the number of pixels stored with the previously specified value exceeds the predetermined allowable number, with a predetermined value.
- 9. Regarding claim 9, Prior art fails to teach of a image data correction means for correcting a value of continuous pixels, which is determined to be abnormal when the image of the original document is read, based on a value of a normal pixel around the

Application/Control Number: 10/007,279 Page 6

Art Unit: 2626

continuous abnormal pixels on which the shading correction is performed, when the number of the continuous abnormal pixels is within a predetermined allowable number and a previously specified value is stored for use as the standard white image data for pixels that are determined to be abnormal by said abnormal white image pixel detection device, and wherein the value of the standard white image data for all of pixels in a region in which the number of the pixels which are determined to be abnormal and for which the previously specified value is stored exceeds the predetermined allowable number, is replaced with a predetermined value.

- 10. Regarding claim 15, Prior art fails to teach of replacing white pixel values detected as abnormal in the examining step with replacement pixel values to thereby generate shading correction data having at least one region of replacement pixel values.
- 11. Regarding claim 24, Prior art fails to teach of a shading correction circuit coupled to said reading and digitizing station and said abnormal pixel detection circuit to replace white pixel values identified as abnormal with replacement pixel values to thereby generate shading correction data having at least one region of replacement pixel values and to use said shading correction data to carry out shading correction of document pixel values to thereby produce shading-corrected document pixel data.

Art Unit: 2626

12. Claims 5,12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication should be directed to Michael Burleson whose telephone number is (571) 272-7460 and fax number is (571) 273-7460. The examiner can normally be reached Monday thru Friday from 8:00 a.m. – 4:30p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached at (571) 272-7471

KIMBERLY WILLIAMS SUPERVISORY PATENT EXAMINER Michael Burleson Patent Examiner Art Unit 2626

Mlb September 5, 2005